

What Is Claimed Is:

1. A method for cladding the tips of rotor blades of a gas turbine power plant, using metal layers that are resistant to oxidation and have embedded in them Al oxide particles, Zr oxide particles, Si carbide particles, Cr oxide particles or similar hard particles, wherein the metal containing the embedded hard particles is applied as a Co layer or an Ni layer onto a solder foil which, corresponding to the geometry of the blade tips that are to be clad, is cut to size as a blank; and, using a moving device that generates a pressure force, whose foil holder has a roughened surface, the blank, after inductive heating of the blade tip, is melted onto the latter while applying surface pressure.
- 15 2. The method as recited in Claim 1, wherein the solder foil, that is to be processed to blanks, is provided, by nickel plating, with the metal layer containing the embedded hard particles.
- 20 3. The method as recited in Claim 1 or 2, wherein the melting-on takes place under protective gas.
- 25 4. The method as recited in one of the preceding claims, wherein a ribbed or pimpled surface structure is impressed onto the blank to be melted on, used for cladding the blade tip, during the melting-on.
- 30 5. The method as recited in one of the preceding claims, wherein after the melting-on of the blank used for the cladding, excess solder and coating are mechanically removed.
- 35 6. A device for carrying out the method as recited in Claims 1 through 4, characterized by a foil holder (17) having a

roughened surface for accommodating a metallic blank (16), having abrasive properties, and a rotor blade holder (18) accommodating a rotor blade as part of a rotor of a gas turbine power plant, having means for the inductive heating of the clamped stator blade tip, the device being designed in such a way that a predetermined pressure force is able to be applied between the foil holder (17) and the blade holder (18).